

0321



OIPE

#2

## RAW SEQUENCE LISTING

DATE: 03/21/2002

PATENT APPLICATION: US/10/038,302

TIME: 14:01:24

Input Set : N:\Crf3\RULE60\10038302.raw

Output Set: N:\CRF3\03212002\J038302.raw

## SEQUENCE LISTING

## 3 (1) GENERAL INFORMATION:

5 (i) APPLICANT: Hillman, Jennifer L.

6 Goli, Surya K.

8 (ii) TITLE OF INVENTION: NOVEL HUMAN MITOCHONDRIAL

9 MEMBRANE PROTEIN

11 (iii) NUMBER OF SEQUENCES: 4

13 (iv) CORRESPONDENCE ADDRESS:

14 (A) ADDRESSEE: Incyte Pharmaceuticals, Inc.

15 (B) STREET: 3174 Porter Drive

16 (C) CITY: Palo Alto

17 (D) STATE: CA

18 (E) COUNTRY: USA

19 (F) ZIP: 94304

21 (v) COMPUTER READABLE FORM:

22 (A) MEDIUM TYPE: Diskette

23 (B) COMPUTER: IBM Compatible

24 (C) OPERATING SYSTEM: DOS

25 (D) SOFTWARE: FastSEQ for Windows Version 2.0

27 (vi) CURRENT APPLICATION DATA:

C--&gt; 28 (A) APPLICATION NUMBER: US/10/038,302

C--&gt; 29 (B) FILING DATE: 04-Jan-2002

30 (C) CLASSIFICATION:

32 (vii) PRIOR APPLICATION DATA:

34 (A) APPLICATION NUMBER: US/09/208,619

35 (B) FILING DATE:

37 (A) APPLICATION NUMBER: 08/812,645

38 (B) FILING DATE:

41 (viii) ATTORNEY/AGENT INFORMATION:

42 (A) NAME: Billings, Lucy J

43 (B) REGISTRATION NUMBER: 36,749

44 (C) REFERENCE/DOCKET NUMBER: PF-0229 US

46 (ix) TELECOMMUNICATION INFORMATION:

47 (A) TELEPHONE: 415-855-0555

48 (B) TELEFAX: 415-845-4166

52 (2) INFORMATION FOR SEQ ID NO: 1:

54 (i) SEQUENCE CHARACTERISTICS:

55 (A) LENGTH: 172 amino acids

56 (B) TYPE: amino acid

57 (C) STRANDEDNESS: single

58 (D) TOPOLOGY: linear

60 (ii) MOLECULE TYPE: protein

61 (vii) IMMEDIATE SOURCE:

ENTERED

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Input Set : N:\Crif3\RULE60\10038302.raw

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```

62      (A) LIBRARY: BLADNOT04
63      (B) CLONE: 1318463
64
65      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
66 Met Glu Glu Tyr Ala Arg Glu Pro Cys Pro Trp Arg Ile Val Asp Asp
67 1      5      10      15
68 Cys Gly Gly Ala Phe Thr Met Gly Val Ile Gly Gly Gly Val Phe Gln
69      20      25      30
70 Ala Ile Lys Gly Phe Arg Asn Ala Pro Val Gly Ile Arg His Arg Leu
71      35      40      45
72 Arg Gly Ser Ala Asn Ala Val Arg Ile Arg Ala Pro Gln Ile Gly Gly
73      50      55      60
W--> 74 Ser Phe Ala Val Trp Gly Gly Leu Phe Xaa Thr Ile Asp Cys Gly Leu
75      65      70      75      80
76 Val Arg Leu Arg Gly Lys Glu Asp Pro Trp Asn Ser Ile Thr Ser Gly
77      85      90      95
78 Ala Leu Thr Gly Ala Val Leu Ala Ala Arg Ser Gly Pro Leu Ala Met
79      100     105     110
80 Val Gly Ser Ala Met Met Gly Gly Ile Leu Leu Ala Leu Ile Glu Gly
81      115     120     125
82 Val Gly Ile Leu Leu Thr Arg Tyr Thr Ala Gln Gln Phe Arg Asn Ala
83      130     135     140
84 Pro Pro Phe Leu Glu Asp Pro Ser Gln Leu Pro Pro Lys Asp Gly Thr
85      145     150     155     160
86 Pro Ala Pro Gly Tyr Pro Ser Tyr Gln Gln Tyr His
87      165     170
88
89 (2) INFORMATION FOR SEQ ID NO: 2:
90
91      (i) SEQUENCE CHARACTERISTICS:
92
93          (A) LENGTH: 655 base pairs
94          (B) TYPE: nucleic acid
95          (C) STRANDEDNESS: single
96          (D) TOPOLOGY: linear
97
98      (ii) MOLECULE TYPE: cDNA
99
100     (vii) IMMEDIATE SOURCE:
101
102         (A) LIBRARY: BLADNOT04
103         (B) CLONE: 1318463
104
105     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
106 GCGCGGNCAG ACGNCAGCGC CATGGAGGAG TACGCTCGGG AGCCCTGCCC ATGGCGAATT      60
107 GTGGATGATT GCGGTGGAGC CTTCACTATG GGTGTCATCG GTGGCGGAGT CTTCCAGGCC      120
108 ATCAAGGGTT TCCGCAATGC CCCTGTTGGA ATTCGGCACC GGTGAGAGG TAGTGCCAAT      180
109 GCTGTGAGGA TCCGAGCCCC CCAGATTGGA GGTAGCTTCG CAGTGTGGGG GGGCCTGTTC      240
110 TNCACCATTG ACTGTGGCCT GGTGCGGCTT CGGGGCAAGG AGGATCCCTG GAACTCTATC      300
111 ACCAGTGGAG CATTGACCGG GGCTGTGCTG GCTGCCCCGA GTGGCCCACT GGCCATGGTG      360
112 GGCTCAGCAA TGATGGGGGG CATCCTGTTG GCCCTCATTG AGGGCGTTGG CATCCTCCTC      420
113 ACTCGCTACA CAGCCCAGCA GTTCCGAAAT GCGCCCCCAT TCCTGGAGGA CCCCAGCCAG      480
114 CTGCCCCCTA AGGATGGCAC CCCGGCCCCA GGCTACCCCA GCTATCAGCA GTACCACTGA      540
115 GGAAGCCACT GCCACCATGG GAGCTACTTC TCGGTTCCCT CCCCAGTGGT CTACCTCGAA      600
116 GGGAGGGCTG GCTCCAGT AGCCCTGGGA CCCTCCAGAG AGGGTTTCTA TCTGT      655
117 (2) INFORMATION FOR SEQ ID NO: 3:
118
119     (i) SEQUENCE CHARACTERISTICS:

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Input Set : N:\Crf3\RULE60\10038302.raw

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```

120      (A) LENGTH: 171 amino acids
121      (B) TYPE: amino acid
122      (C) STRANDEDNESS: single
123      (D) TOPOLOGY: linear
125      (ii) MOLECULE TYPE: protein
126      (vii) IMMEDIATE SOURCE:
127          (A) LIBRARY: GenBank
128          (B) CLONE: GI 1770564
130      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
132 Met Glu Glu Tyr Ala Arg Glu Pro Cys Pro Trp Arg Ile Val Asp Asp
133   1           5           10           15
134 Cys Gly Gly Ala Phe Thr Met Gly Thr Ile Gly Gly Gly Ile Phe Gln
135           20           25           30
136 Ala Ile Lys Gly Phe Arg Asn Ser Pro Val Gly Val Asn His Arg Leu
137           35           40           45
138 Arg Gly Ser Leu Thr Ala Ile Lys Thr Arg Ala Pro Gln Leu Gly Gly
139           50           55           60
140 Ser Phe Ala Val Trp Gly Gly Leu Phe Ser Met Ile Asp Cys Ser Met
141           65           70           75           80
142 Val Gln Val Arg Gly Lys Glu Asp Pro Trp Asn Ser Ile Thr Ser Gly
143           85           90           95
144 Ala Leu Thr Gly Ala Ile Leu Ala Ala Arg Asn Gly Pro Val Ala Met
145           100          105          110
146 Val Gly Ser Ala Ala Met Gly Gly Ile Leu Leu Ala Leu Ile Glu Gly
147           115          120          125
148 Ala Gly Ile Leu Leu Thr Arg Phe Ala Ser Ala Gln Phe Pro Asn Gly
149           130          135          140
150 Pro Gln Phe Ala Glu Asp Pro Ser Gln Leu Pro Ser Thr Gln Leu Pro
151           145          150          155          160
152 Ser Ser Pro Phe Gly Asp Tyr Arg Gln Tyr Gln
153           165          170
155 (2) INFORMATION FOR SEQ ID NO: 4:
157      (i) SEQUENCE CHARACTERISTICS:
158          (A) LENGTH: 158 amino acids
159          (B) TYPE: amino acid
160          (C) STRANDEDNESS: single
161          (D) TOPOLOGY: linear
163      (ii) MOLECULE TYPE: protein
164      (vii) IMMEDIATE SOURCE:
165          (A) LIBRARY: GenBank
166          (B) CLONE: GI 557267
168      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
170 Met Ser Ala Asp His Ser Arg Asp Pro Cys Pro Ile Val Ile Leu Asn
171   1           5           10           15
172 Asp Phe Gly Gly Ala Phe Ala Met Gly Ala Ile Gly Gly Val Val Trp
173           20           25           30
174 His Gly Ile Lys Gly Phe Arg Asn Ser Pro Leu Gly Glu Arg Gly Ser
175           35           40           45
176 Gly Ala Met Ser Ala Ile Lys Ala Arg Ala Pro Val Leu Gly Gly Asn

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177	50	55	60
178	Phe Gly Val Trp Gly Gly Leu Phe Ser Thr Phe Asp Cys Ala Val Lys		
179	65	70	75
180	Ala Val Arg Lys Arg Glu Asp Pro Trp Asn Ala Ile Ile Ala Gly Phe		80
181		85	90
182	Phe Thr Gly Gly Ala Leu Ala Val Arg Gly Gly Trp Arg His Thr Arg		95
183		100	105
184	Asn Ser Ser Ile Thr Cys Ala Cys Leu Leu Gly Val Ile Glu Gly Val		110
185		115	120
186	Gly Leu Met Phe Gln Arg Tyr Ala Ala Trp Gln Ala Lys Pro Met Ala		125
187		130	135
188	Pro Pro Leu Pro Glu Ala Pro Ser Ser Gln Pro Leu Gln Ala		140
189	145	150	155

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/038,302

DATE: 03/21/2002  
TIME: 14:01:25

Input Set : N:\Crf3\RULE60\10038302.raw  
Output Set: N:\CRF3\03212002\J038302.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos.74  
Seq#:2; N Pos. 7,14,242

## VERIFICATION SUMMARY

PATENT APPLICATION: US/10/038,302

DATE: 03/21/2002

TIME: 14:01:25

Input Set : N:\Crf3\RULE60\10038302.raw

Output Set: N:\CRF3\03212002\J038302.raw

L:28 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]  
L:29 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]  
L:75 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:64